s/079/61/031/003/003/013 B118/B207

AUTHORS:

Shmonina, V. P., Temnikova, G. P., and Sokol'skiy, D. V.

TITLE:

Catalytic reduction of aromatic nitro compounds. X. Effect of phenol hydroxyl upon the reduction kinetics of the nitro

group in nitrobenzene derivatives

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 3, 1961, 743-749

TEXT: The present paper describes the effect exerted by the presence and position of phenol hydroxyl upon the reduction kinetics of the nitro group in isomeric nitrophenols in the presence of a nickel or platinum catalyst, i. e., in neutral or alkaline-aqueous alcoholic media. The phenol hydroxyl and ONa groups that were introduced into the nitro-compound molecule reduce its adsorption on both catalysts more intensively in ortho-position than in para-position where the reduction is greater than in meta-position. When the reaction is carried out on the skeleton nickel catalyst in an alkaline medium, the ONa group in the molecule of the nitro compound accelerates the reduction. Thus, the compounds studied may, with respect to the increase of reaction rate, be classified as follows: nitrobenzene, m-nitrophenolate,

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Catalytic reduction ...

p-nitrophenolate, o-nitrophenolate. On the platinum catalyst, however, the ONa group retards the reduction of the nitro compound, and the order of compounds is inverse with respect to the increase of reaction rate. In a neutral medium, the bond between hydrogen and platinum is less stable so that the position of phenol hydroxyl in the molecule exerts no essential influence upon the reaction rate. There are 6 figures, 4 tables, and 8 Sovietbloc references.

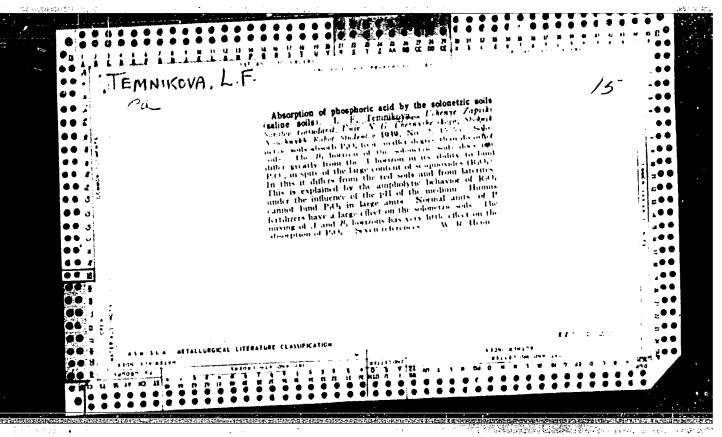
ASSOCIATION: Kazakhskiy gosudarstvennyy universitet (Kazakh State

University)

SUBMITTED: January 28, 1960

Card 2/2

N.



SHKILEY, V.V.; TEMNIKOVA, L.Y.

Case of importation of black rate into the city of Ussuriysk. Isv. Irk.gos.nauch.-issl.protivochum.inst. 19:98-100 '58. (HIRA 13:7)

(Ussuriysk-Rats)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

: USSR COUNTRY М : Cultivated Plants. Cereals. CATEGORY 1958 No. 104644 ABS. JOUR. : RZhBiol., No. : Temnikova, L.
: Adademy of Sciences, Latvian SSR AUTHOR INST. : Experiments in Growing Corn in Latvia under the TITLE Meteorological Conditions of 1955. ORTG. PUB. : Latv. PSR zinatnu Akad. vestis, Izv. AN Latv. SSR, No. 2. 57-62 : The simplest method for the evaluation of adequate mois-ABSTRACT ture supply is Selyaninovs hydrothermal coefficient (HTC). In regard to HTC, Latvien Republic has to be assigned to the zone of excessive precipitation. Experiments in growing corn were conducted at 13 points in the Republic. The milky stage of maturity came on 12 plots in the second and third 10-day period of September. For Osetinskaya variety, the weight of the green roughage varied from 377 to 1104 centners/hs. The relation of the CARD: 1/2 29

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usili,"

COUNTRY М CATEGORY : : RZhBiol., No. 23 1958, No. 104644 ABS. JOUR. AUTHOR INST. TITLE ORIG. PUB. : : height of corn to the value of HTC was determined. This makes it possible to evaluate objectively one or another ABSTRACT experimental point in regard to corn growing, and to evaluate the feasibility of the profitableness of corn production for green roughage in the individual rayons of Latvien SSR with the first approximation of climatic forecast. -- 0. V. Yakushkina Card: 2/2

PHASE I BOOK EXPLOITATION SOV/4761

Kozyreva-Aleksandrova, L.S., and H.I. Temnikova

Radioaktivnyy izotop yoda J¹³¹ (Radioactive Isotope of Iodine J¹³¹)
Moscow, Atomizdat, 1960. 21 p. 15,000 copies printed.

Ed.: G.M. Pchelintseva; Tech. Ed.: N.A. Vlasova.

PURPOSE: This booklet is intended for scientific personnel working with radioisotopes, particularly for those interested in methods of extracting

COVERAGE: The authors note the increasingly wider application of radioistopes in science and industry, and review the theory of radioisotopes as developed in this century. The following are discussed briefly: chemical methods of extracting J¹³¹, the extracting of J¹³¹ with the carrier from irradiated tellurium, methods of extracting carrier-free J¹³¹, the extraction of J¹³¹ from neutron-irradiated tellurium, the applications of radioactive J¹³¹, and safety Card 1/2

Radioactive Isotope of Iodine J¹³¹

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engineering and technique in working with the radioactive iodine. No personalities are mentioned. There are 15 references, all Soviet.

TABLE OF CONTENTS: None given

AVAILABLE: Library of Congress (QD466.511Ks)

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JA/wrc/gmp 3-29-61

Motoorological Abst.

Vol. 4 No. 3
March 1953
Part 2
Bibliography on Front and Front Forecasting

Forecasting

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March 2 Statistant Front Front Front Forecasting

March 2 Statistant Front Forecast International Forecast

A rare instance of surface inversion. Netero. i gidrol. no.2: (MIRA 8:9) 28-30 F *53. 1. Rostovskoye UGMS (Atmospheric temperature)				

EMNIKOVA, N.S.

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P.; BUCHINSKIY, I.Ye.; SEYANINOV, G.T., professor; BOSHNO, L.V.; ALISOV, B.P.; BIRYUKOV, N.N.; GALITSOV, A.P.; GRIGORITEV, A.A., akademik; EYGENSON, M.S., professor; MURETOV, N.S.; KHROMOV, S.P.; BOGDANOV, P.N.; LEHEDEY, A.N.: SOKOLOV, V.N.; YANISHEVSKIY, Yu.D.; SAMOYLENKO, V.S.; USMA-NOV, R.F.; CHUBUKOV, L.A.; TROTSENKO, S.Ya.; VANGENGEYM, G.Ya.; SOKOLOV, I.F.; STYRO, B.I.; TENNIKOVA, N.S.; ISAYEV, E.A.; DMITRIYEV, A.A.; MALYUGIN, Ye.A.; LIEDEMAA, Ye.K.; SAPOZHNIKOVA, S.A.; RAKIPO-VA, L.R.; POKROVSKAYA, T.V.; BAGDASARYAN, A.B.; ORIOVA, V.V.; RU-BINSHTEYN, Ye.S., professor; MILEVSKIY, V.Yu.; SHCHER BAKOVA, Ye.Ya.; BOCHKOV, A.P.; ANAPOLISKAYA, L.Ye.; DUNAYEVA, A.V.; UTESHEV, A.S.; HUDNEVA, A.V.; RUIENKO, A.I.; ZOLOTAREY, M.A.; NERSESYAN, A.G.; MIKHAYLOV, A.N.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVYATKOVA, A.M.; ZAVARINA, M.V.; SHMETER, S.M.; BUDYKO, M.I., professor.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor.GUGMS no.3/4:26-154 154.

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya geofizicheskaya observatoriya im. A.I.Voeykova (for Predtechenskiy, Lebedev, Yanishevskiy, Isayev, Rakipova, Pokrovskays, Orlova, Rubirshteyn, Budyko, Shcherbakova, Anapol'skaya, Dunayeva, Rudreva, Gavrilov, Zavarina). 3. Ukrainskiy nauchno-issledovatel skiy gidrometeorologicheskiy institut (for Buchinskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of detates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUGMS no.3/4:26-154 154. (Card 2)

4. Vsesoyuznyy institut rastenievodstva (for Selyaninov, Rudenko). 5. Bioklimaticheskaya stantsiya Kislevodsk (for Boshno). 6. Mozkersskiy gosudarstvennyy universitet im. M.V. Lomonosova (for Alisov). 7. Ministerstvo putey soobshcheniya SSSR (for Biryukov). 8. Institut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev). 9. Geofizicheskaya komissiya Vsesoyuznogo geograficheskogo obshchestva (fcz Eygenson). 10. Ministerstvc elektrostantsiy i elektropromyshlennosti SSSR (for Muretov). 11. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov). 12. TSentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskiy arkhiv (for Sokolov, Zolotarev). 13. Gosudarstvennyy okeanograficheskiy institut (for Samoylenko). 14. TSertral'nyy institut prognozov (for Usmanov, Sapozhnikova). 15. Institut geografii Akademii nauk SSSR i TSentral'Lyy institut kurortologii (for Chubukov). 16. Nauchno-issledovatel skiy institut imeni Sechenova, Yalta (for Trotaenka). 17. Arkticheskiy nauchne-issledovatel'skiy institut (for Vangengeym). (Continued on mext card)

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 FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state of climatological research and methods of developing it].

Inform.sbor. GUGMS no.3/4:26-154 154. (Card 3) (MIRA 8:3)

18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Sokolov). 19. Institut geologii i geografii Akademii nauk Litovskoy SSR (for Styro). 20. Rostovskoe upravlenie
gidrometsluzhby (for Temnikova). 21. Morskoy gidrofizicheskiy Institut Akademii nauk SSSR (for Dmitriyev). 22. Vsesovuznyy institut
tut Akademii nauk SSSR (for Malyugin). 25. Akademiya nauk Estonskoy SSR
(for Liedemaa). 24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan).
(for Liedemaa). 24. Akademiya nauk Armyanskoy SSR (for Milevskiy).
25. Leningradskiy gidrometeorologicheskiy institut (for Milevskiy).

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FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform.sbor. (MIBA 8:3)

26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Uteshev). 28. Upravlenie gidrometslushby Armyanskoy SSR (for Nersesyan). 29. Leningradskoye upravleniye gidrometslushby (for Mikhaylov, Besyan). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya). 31. TSentral'naya aerologicheskaya observatoriya (for Shmeter). (Climatology)

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JEMNIKOVA, N.J.

AID P - 1433

Subject : USSR/Meteorology and Hydrology

Card 1/1 Pub. 71-a - 7/23

Author : Temnikova, N. S., Kandidat of Geogr. Sciences

Title : Dust storms in the Stalinograd district

Periodical: Met. i gidro., 1, 31-32, Ja - F 1955

Abstract : Statistical data are given of dust storms with a wind

volocity of 12-15m/sec. from an analysis of observations taken from 1936 to 1950. Measures of protection are suggested and a table given of these storms by months observed at 7 stations for 1948 and 1949. One

Russian reference

Institution: Main Administration of the Hydrometeorological Service

at the Council of Ministers of the USSR

Submitted : No date

TEMNIKOVA, M.S.

AID P - 3182

Subject

: USSR/Meteorology

Card 1/1

Pub. 71-a - 9/23

Author

: Temnikova, M. S.

Title

: Early frost on ploughed land and meadows

Periodical

: Met. i. gidr., 5, 38-40, 8/0 1955

Abstract

: The possibility of forecasting early and late frost_following 10 year observations made in Latvia is discussed. The freezing of corn at temperatures of -2°C is reported. Diagrams show the difference in temperatures of air, ploughed earth and soil covered with grass. Four diagrams.

Institution : None

Submitted

: No date

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14-57-6-12148

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,

p 67 (USSR)

AUTHOR:

Temnikova, N. S.

TITLE:

Frost Danger in Various Forms of Hilly Regions (Morozoopasnost' razlichnykh form kholmistogo

rel'yefa)

PERIODICAL:

Izv. AN LatvSSR, 1956, Nr 9, pp 75-83

ABSTRACT:

A microclimatic survey was carried out simultaneously at 13 points in the northeastern part of the Vidzemskaya vozvyshennost' (upland) from May 6 to June 11, 1954, during the period of the spring frosts. Results of the observations have shown that average minimum temperature (at an 0.5 m level) was 20 or 30 higher on the hill summits than in the adjacent valleys. These values were smaller on slopes than on hilltops, being only from 0.20 to 0.40, and reached 10 only on

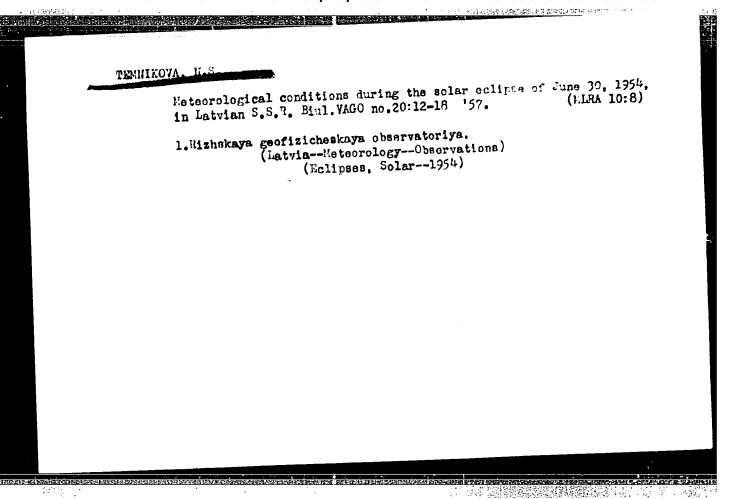
Card 1/2

14-57-6-12148

Frost Danger in Various Forms (Cont.)

the steepest slopes. The greatest difference between minimum temperatures in the valleys and on the summits, reaching 40 or 50 and even 60, was observed during the periods of cold advection; during warm advection these differences decreased sharply. The extent of differences between these values depends also on the clouds and on the wind velocity, but steepness of a slope and its exposure have no effect on it. Regardless of the weather, the average minimum temperatures are lowest in the valleys and highest on the summits. Thermal relations over the slopes, valleys, and summits are substantially different during the periods of hot and cold advection. Regardless of whether the weather is clear, overcast or windy, the temperature differences are considerably smaller during the periods of warm advection than during the periods of cold advection.

I. D. Card 2/2



CIA-RDP86-00513R001755220014-4 "APPROVED FOR RELEASE: 07/16/2001

3(7) AUTHOR:

Temnikova, H. S.

SOV/50-59-5-11/22

TITLE:

Methods of Studying the Microclimate (O metodakh izucheniya mikro-

klimata)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 5, pp 45 - 48 (USSR)

ABSTRACT:

The agroclimatic handbooks, the program of which contains a section on the microclimate, need microclimatic corrections. Up to now, the principal method of obtaining these mean microclimatic corrections has been the method of the analysis of so-called background (fonovyy) charts. This method has, however, some relevant shortcomings. It is shown here that reliable microclimatic corrections for the different meteorological elements can only be obtained at present by means of microclimatic special surveys in the different regions of the USSR. The experience of the Rizhskaya gidrometeorologicheskaya observatoriya (Riga Hydrometeorological Observatory) of the UGMS Latv. SSR (Hydrometeorological Service Administration of the Latvian SSR) shows that such surveys can be organized very easily with the forces of the hydrometeorological stations working at present. In fall 1957, the UGMS of the Estonian, Lithuanian and Latvian SSR began to carry out a

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Methods of Studying the Microclimate

SOV/50-59-5-11/22

number of such surveys in the Baltics. First of all, the influence of the different forms of hill country on the climate is to be clarified. The execution of these surveys is described here in short. In the descriptions of the MCP (microclimatic points), the character of the vegetation and soil, the moisture content of the surface of the soil, the steepness and illumination of the slope, the relative superelevation above the bottom of the valley, and possibly the profile of the slope, should be indicated. The observations must be made in fall, from September 20 until the time when the mean diurnal air temperature continuously exceeds 5°, and in spring, from April 16 to June 15. According to the program described here, the regions of the Vidzem and Kurzem Elevations were investigated microclimatically in fall 1957 and in the warm period of 1958. To check the data obtained, analogous surveys were carried out by the method given here at the hydrometeorological station of Saldus on the Kurzem Elevation. These data were evaluated by L. M. Fonina. The results were in full conformity with those obtained before. This fact shows that there are certain rules in the distribution of microclimatic corrections for the same relief forms in the same region. The microclimatic investigations of the moisture content of the soil are theoreti-

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Methods of Studying the Microclimate

SUY/50-59-5-11/22

cally very interesting and very important to practice. In this connection, it would be convenient to complete the survey program of 1958 by measurements of the soil moisture content in the upper horizon and in the arable horizon. There are 7 Soviet references.

Card 3/3

TEMNIKOVA, Natal'ya Sergeyevna; DROZDOV, O.A., prof., red.; USHAKOVA, T.V., red.; SZRGZYZV, A.N., tekhn.red.

[Climate of the Northern Caucasus and adjacent steppes] Klimat Severnogo Kavkaza i prileshashchikh stepei. Pod red. O.A.Drozdova. Leningrad, Gidrometeor.izd-vo. 1959. 367 p. (MIRA 13:2) (Caucasus, Northern--Climate)

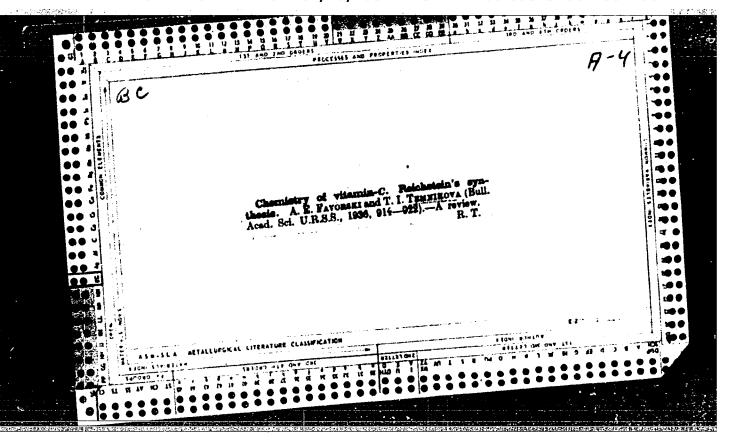
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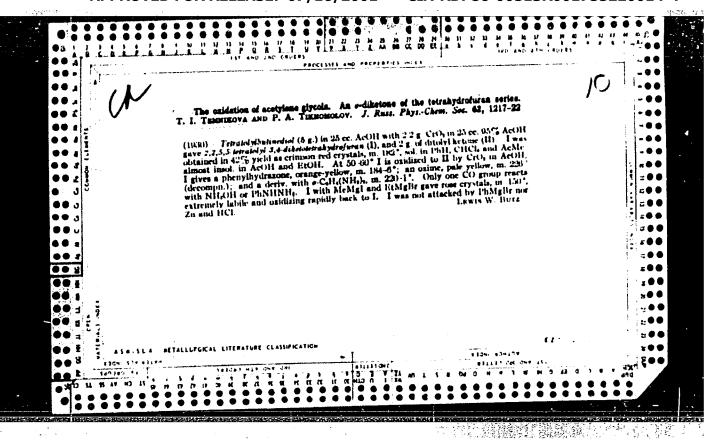
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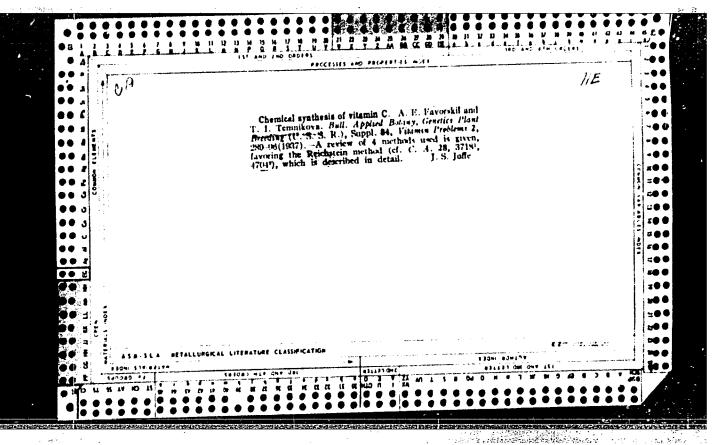
TEMNIKOVA, R. T.

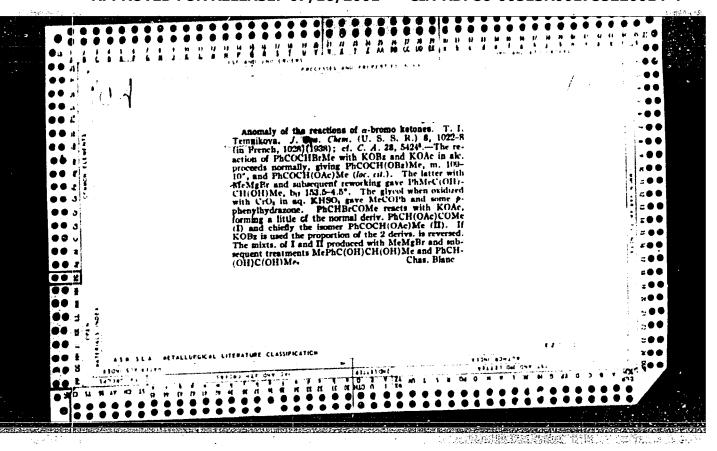
report presented at the 6th Sci. Conference on the Application of Ultrasound in the Investigation of Matter, 3-7 Feb 1958, organized by Min. of Education PSFSR and Moscow Oblast Pedagogic Inst. im N. K. Krupskaya.

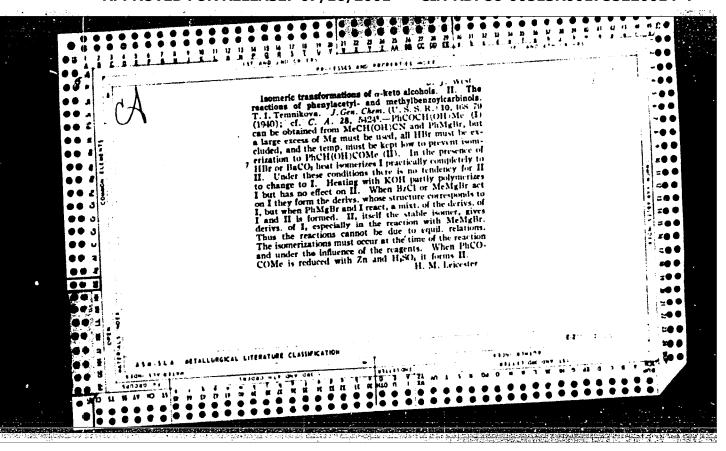
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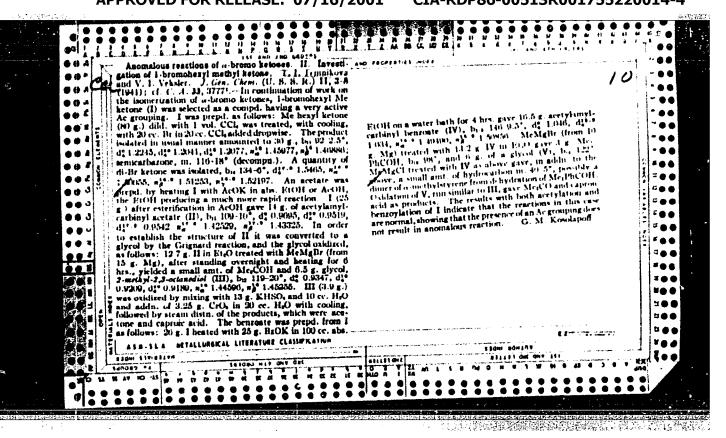


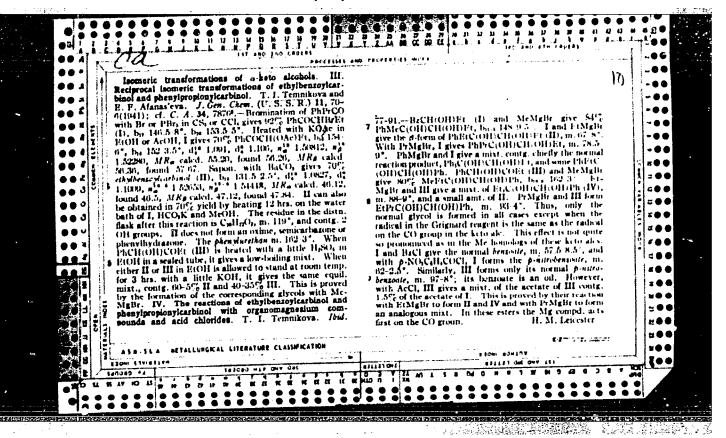


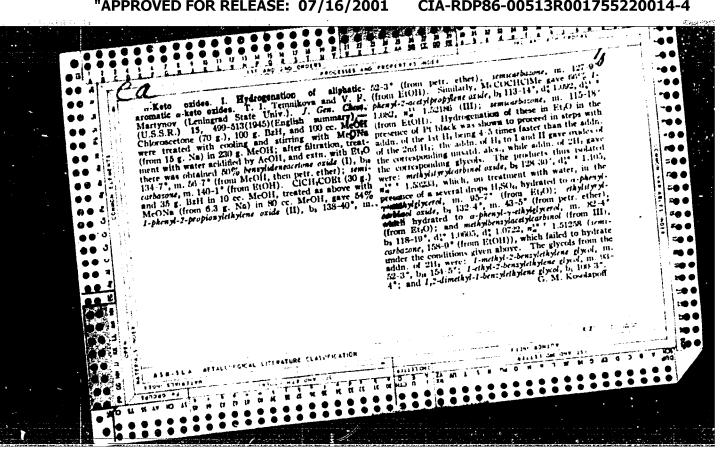








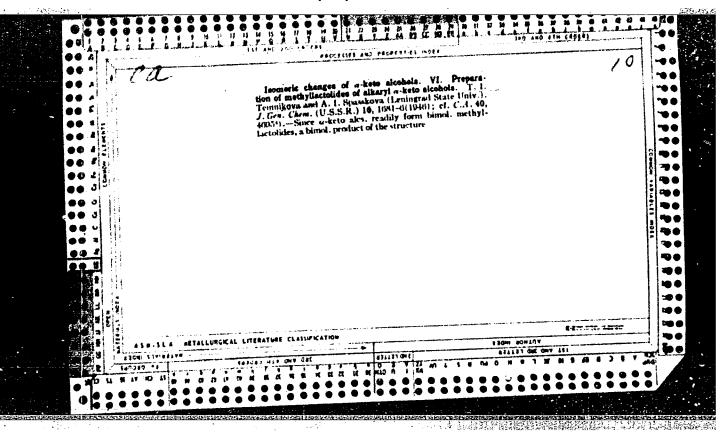


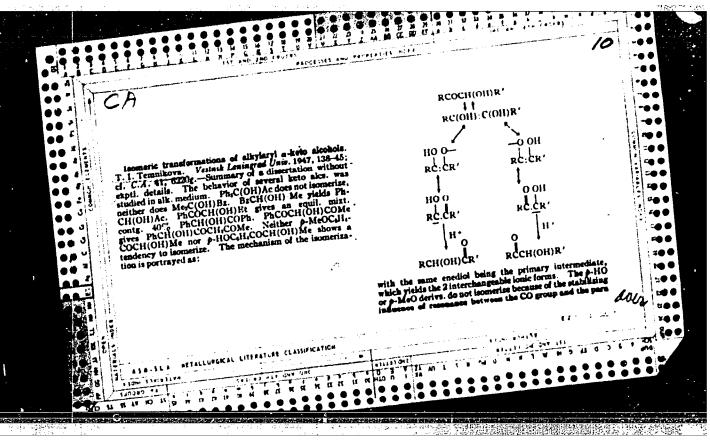


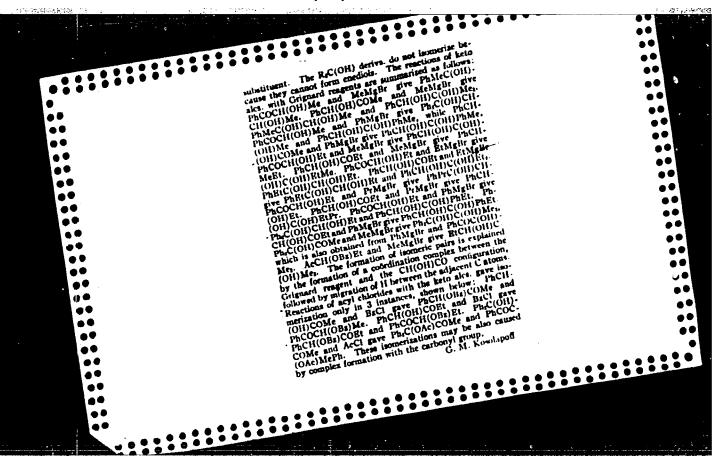
TEMNIKOVA, T. I.

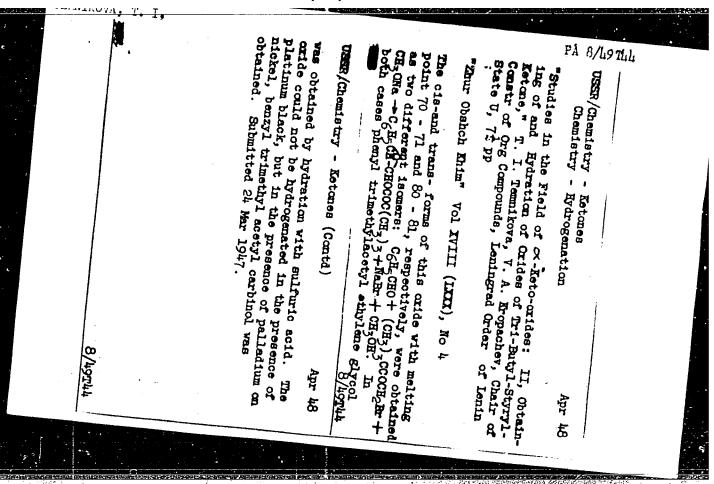
"Investigation in the field of Isomeric Transformations of a-Keto-alcohols. V. Diphenyl-Acetyl-Carbinol and Dimethyl-Benzoyl-Carbinol." Temnikova, T. I. (p. 51h)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1945, Volume 15, no. 6.

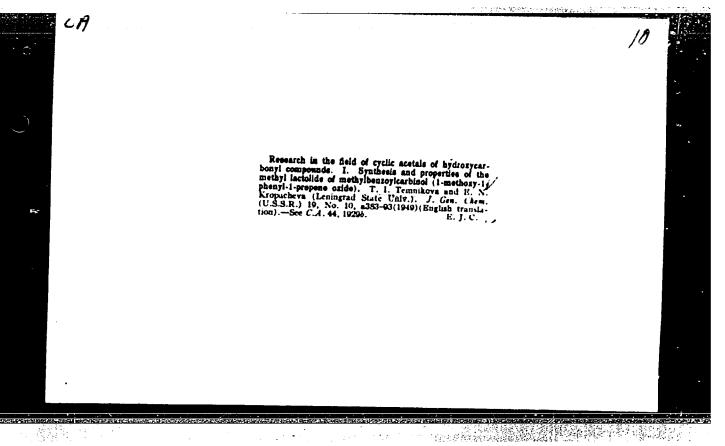


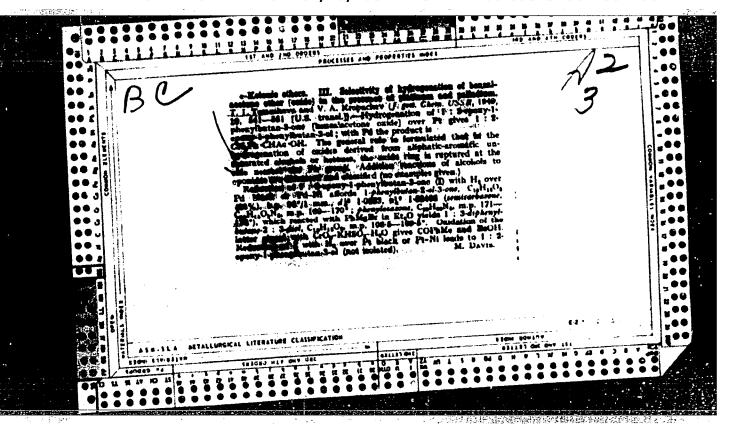


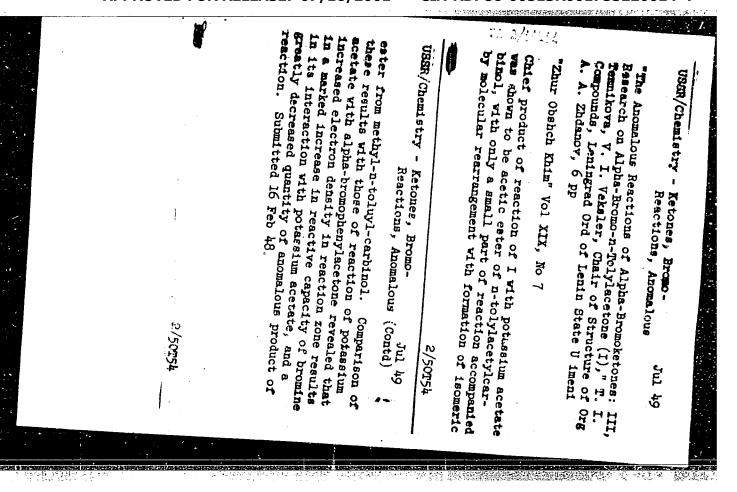




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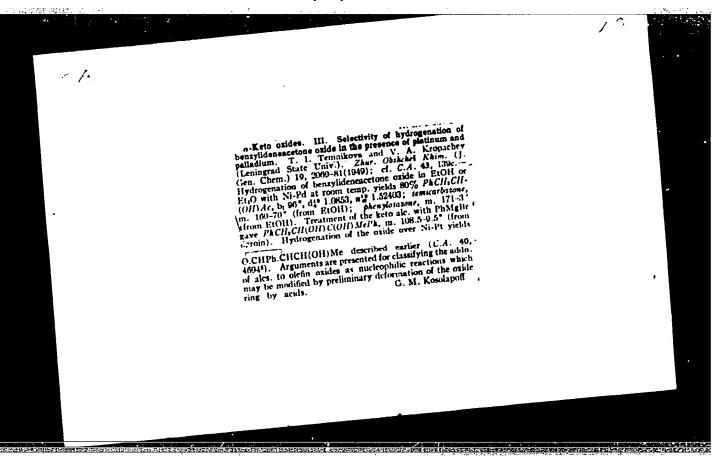
Isomeric transformations of n-keto alcohols. VIII. Influence of chlorine in the para position on the stability of alkaryl n-keto alcohols. Methyl/p-chlerebenseyl). carbined. T. I. Tennikova and R. I. Kulachkova. Zhur. Obinkhil Khim. (J. Gen. Chem.) 19, 1324-34 (1949); C. C.A. 41, 6239/.—Slow addin. of 50 g. PhCl and 60 g. BtCoCl to 116 g. AlCl, in 100 ml. CS, and letting stand 2 days, followed by 3 hrs. on a steam bath, gave upon ke treatment 91°; Et p-chlorophenyl kelone. m. 34-6°. This (61.2 g.) in 180 ml. AcOlf, treated with 58 g. Be and pound into water, gave 80-90% 1-bromothyl p-chlorophenyl helone, m. 77-9° (from ligroin). Heating this (13 g.) with 10 g. KO₂CH and 35 ml. MeOlf in a sealed tube 8 hrs. at 128-30° gave 4.3 g. mixed p-CICH,COCH. (OH) Me and p-CICH,CH(OH) COMe, bs. 138-9° which gave a sumicarbatone, m. 183-4° (from BtOH); however, the presence of 2 products is shown by treatment with PhMgBr which gave a glycol mixt., m. 74-81° (from ligroin), apparently p-CICH,COH)PhCH(OH) Me (I) and p-CICH,COH. Heating the crude oil from the KO-CH-MeOH reaction 30 hrs. with an aq. suspension of BaCO₁ on a steam bath causes isomerization of the keto ac. mixt. to pure methyl/p-chlorobenseyl/carbinol (46% yields a semicarbatone, m. 185-8°, which with PhMgBr yields pure I, m. 88-5-9-5°, which with Ph-COAcl, gives only p-CICH,COPh and AcH. A similar isomerization, with poorer yield, takes place on standing 3 days in 1.7% alc. KOH. Refluxing 25 g. p-CICH,CO-CHBMe with 12 g. KOAc and 50 ml. BtOH 5 hrs. gave 48.5% methyl/p-chlorobenseyl/carbinol accesses, b, 133-6°

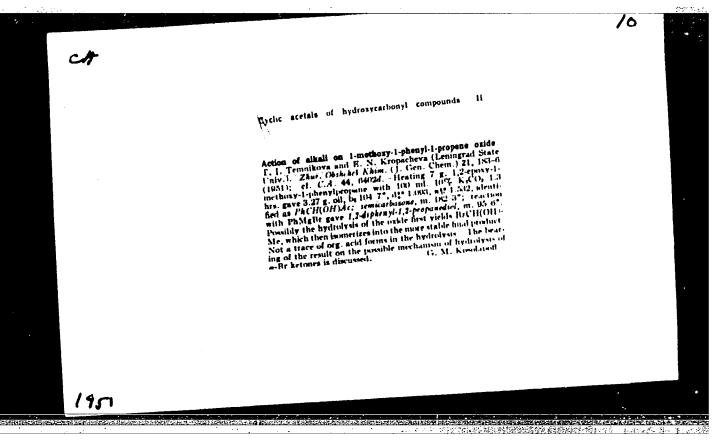
d₄° 1.216, a¹/₂° 1.529, which on treatment with McMgBr gave \$\textit{p-CCCIII}(C(OII) Mc/H(OII)) Mc, b, 125°, which with Pb(OAc), gave AcH and \$\textit{p-CICH}(COMc\ (caricarbazone, in. 192-4°, also prepd. by the Friedel-Crafts method). The use of BsOK instead of KOAc in the above gave the corresponding \$\textit{benzoate}_{model} m. 192-3.5° (from ligroin), which is stable to hot aq. BsCO₃ (3) hrs.). The results indicate that the mesomeric effect of the \$\textit{p-CICAH}_4\$ group is greater than that of Me in the informediate substance formed in the course of isomerization.

G. M. Kolsolapoff

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

Cyclic acetals of hydrosycarbonyl compounds. I. Preparation and properties of the methyl including of methylbenoplarishood (I-methary-1-phospher)-1-propone oxide). T. I. Tematova and E. N. Kropacheva (Kalestia Stroeniya Org. Soedineail Leningrad, Gosularst, Ordena Lenina Univ. im. A. A. Zhdanova). Zhar, Ohi khel Akim. (J. Gen. Chem.) 19. 1017-20(1949).—Ph.COCIII-Mod. (12 g.) in BigO treated slewly with a suspension of Methyl times. Society of the Color of





a method of preparation of a keto caldes as a method of preparation of a keto alcahus [...], [...]

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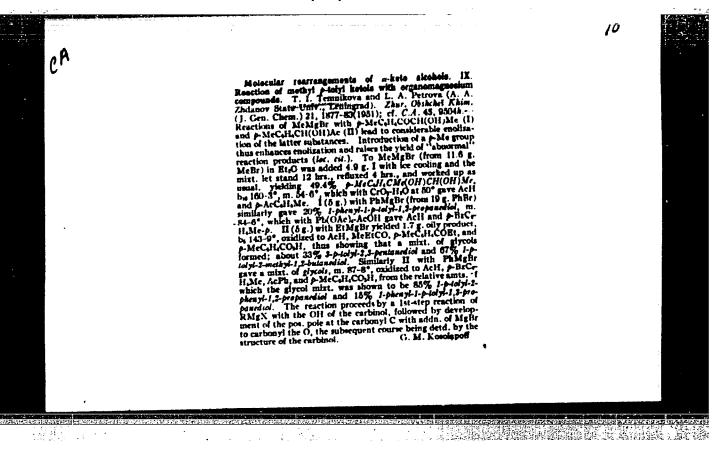
Isomeric transformations of a-keto alcohola VIII. Reflect of a methyl group in the para position in a phearl nucleus on the relative stability of isomeric athary), a kero alcohola. T. I. Tennikova and L. A. Petrova (Leningrad State Univ.) Thus, (b)-b)-kel Khim. (1. Gen. Chem.) 21, 677-84(1951), cf. C. I. 44, 10364, 4442f. Introduction of Mr. into the para position of Ph. in alkaryl a-keto alcoholarys the properties of the substances by the inductive and measurement effects of the Mr. group. Of MeCall, COCH, (Olf-Mr. and McCall, CHOHCOMe, the former is most stable. A said, solo, of 30 g. HCOK in MeOH at 40° is treated with a 50°, McCall and of PMcCall, CHBrAc (31 g. p. McCall, CH Ac brommated and the crude product used directly) and string a gentle reliax 10 hrs. to yield 27° of 14% of the directly and string deposits a solid resulting resonation, m. 180-90° (from EtOH); obstone, in. 141-3° (from EtOH); Treatment of the alc. with 2-3° g. McOH-HCI yields the cyclodionethyleidarbolade. Callsolo, in. 2733°. Attempts to perp. the carbonol by heating the Br ketone in a scaled tube

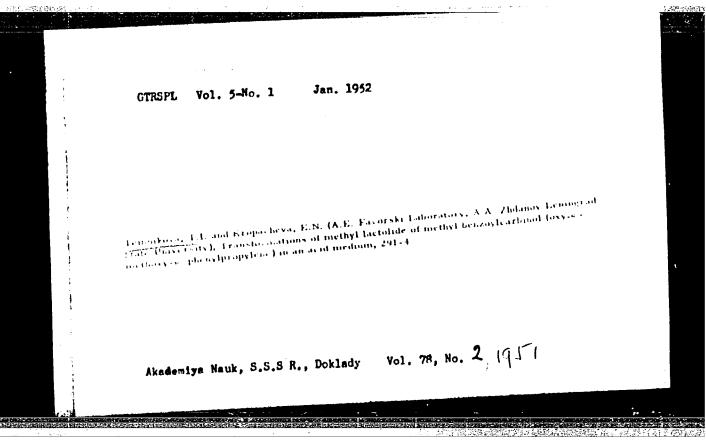
waled (ube). The solid in 1737, formed on storage of the carbinol, has not till groups, nor down them as uncarbacing of the carbinol, has not till groups, nor down them as uncarbacing, possibly it to ty Metally, II (17). Beauting J. Met. II (COCHIM die with HEOR and Metall in a scaled tube by 80% semicarbacone; the yield of the semicarbacone in 180% semicarbacone; the yield of the semicarbacone undicates that the condensation vields a ment of keptose the number of the order that the condensation vields a ment of keptose with the semicarbacone and the semicarbacone of the semicarbacone of the production of the path semi-carbacone, aciditaction of the filter with 5% Hesting tributional symmetry distributed, in 2007 drom Cotton broad a Br derive, but heating 4 g. Metall, Cochilis Monthly and the scale, in 2007 drom Cotton broad howards, in 300 drom broad heating to the 18th order of the third with a Br derive, but heating 4 g. Metall, Cochilis Monthly and heating, in 300 drom broad. The semicirates of the 2 keto ales was followed by the mod undvise of the 18th order. Crind II on this hasse contains 20.5% of the 18th orders. Crind II on this hasse contains 20.5% of the continuous gives a cyclobacolab the mass and serves on the cyclobacolab the mass of the continuous gives a cyclobac tolde whose in p. 227% indo-arial continuous gives a cyclobac tolde whose in p. 227% indo-arial colorinal levels does contain the colorinal keto does contain to be obtained keto does contain the production. The period colorinal keto does contain to be obtained keto does contain the following the and colorinal keto does contain to be obtained keto does contain the period colorinal keto does contain the best total colorinal keto does contain to be solided. Co. M. k.

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"Action of Aluminum Amalgams on 3-Chloro-3Methylbutyne-1," T. I. Temnikova, Z. A. Baskova, Chair of Structure of Org Compds, Leningrad State U imeni A. A. Zhdanov "Zhur Obshch Khim" Vol XXI, No 10, pp 1823-1825 Reduction of 3-chloro-3-methylbutyne-1 with Al amalgam in boiling aq Et alc yields mixt of hydrocarbons: isopropylacetylene (~ 30%), isopropenylacetylene (~ 60%), and nonsym dimethylallene (~ 10%).





Irimakova, I.I. and Tikhomolova, M.P. (S. A. Zhaliov Lemngrad State University), The structure of Butlerov's usectered (CH₃)₃c = 0 c. (OH)(CH₃)₂, 613-6

Akademiya Nauk S.S.S.R., Doklady Vol. 79 No. 4 (QS)

- 1. TEMNIKOVA, T. I.
- 2. USSR (600)
- 4. Chemistry, Organic
- 7. Molecular rearrangement, tautomeric and isomeric conversion. Part 1. Development of principle ideas in the works of A. M. Butlerov, Vest. Len. Up), 7, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

TEMNIKOVA, T. I.

Temnikova, T. I., Kropachev, V. A.- "Investigation of isomeric transformations of -keto alcohols. IX. Investigation of benzylacetylcarbinol." (p. 813)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, No. 5

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

TEMNIKOVA, T.1.	There .
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Chemical Abst. Vol. 48 No. 5 Mar. 10, 1954 Organic Chemistry	Isomeric transformations of a-oxo alcohols. X. Royachev. aretylearhinol. T. I. Tenfnikova and V. A. Kropachev. (A. A. Zhdanov State Univ., Leningrad). J. Gen. Chem. U.S.S.R. 22, 876-7(1952)(Engl. translation).—See C.A. 47, 3268e. M. L. H. J.
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TERMIKOVA, T. I., KULACHKOVA-KMITO, Ye. I.

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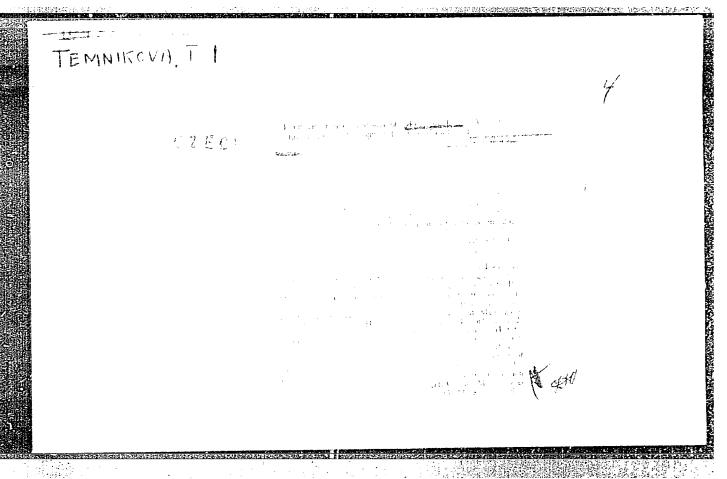
Alcohols.

Molecular rearrangements of -keto alcohols. Part. II. Molecular rearrangements of esters of -keto alcohols during methanolysis. Zhur. ob.khim. 22 No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

Chemical Abst. Vol. 42 No. 5 Mar. 10, 1954 Organic Chemistry Molecular rearrangements of a-oxo alcohols. XI. Molecular rearrangements in methanolysis of exercised oxox alcohols. T. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. 1. Tempikova and E. I. Kulachova (Chem. V. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
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TEMNIKOVA, T. I., BASKOVA, Z. A. and KHAIMOVA, M. A.

On the Addition of Iodine Chloride to dy -Diphenylpropylene and different collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

Chair of the Structure of Organic Compounds, Leningrad State U

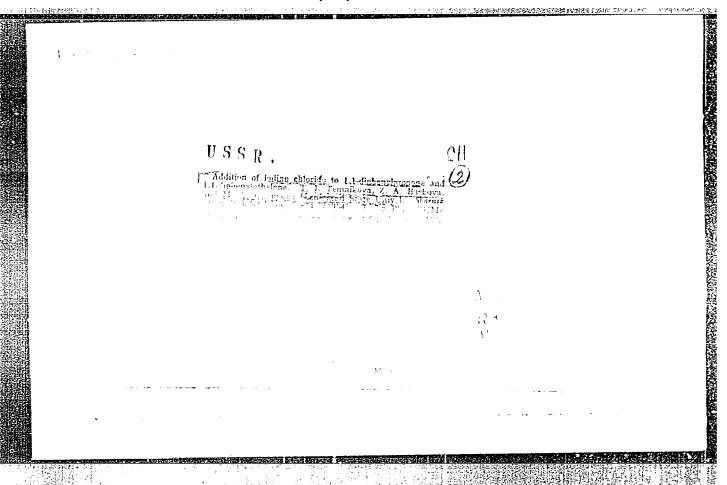
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以中国的国际的特别的基础的基础的基础的基础的基础的基础的基础的基础。如果不是一个企业的企业。 CENINI and Nuclear and Billio, V. Methyl lactolides is other Ciello restala of hydroxycorbonyl compounds IV Cycle Ecolor of directly cardinates of the Methyl lactoline of directly libertoyleartiq, lend its travs formations. T. I. Tempikova and A. Lamashi (A. A. Zhidmon Striff libis, femingraf). Also Clasher Kain 23, 1338-46 (1933); 4 C. A. 68, 2654s. To Machine than 10 g. N. in 200 in Mig. Was added slowly 70 g. In Cheider and after 7. 10 hrs. the filtrate gave dimensylvanishes by of PhC - CVIII OMe Me lantilide, PhC(OMe) CMe, O (I), b., \$5.5.5%, b. Ile-fills, dir 1 (124, mg) 1.492 m of 1 49583, s.g. 15983. I with no alc. Hance(ONE), b., \$6.0, gave directly the magnetisations, in [21, 21, 0] or g. with 2.4 (I) Nh(CH) in an involvement of the constraint of the direct of Haco, gave the collection of the constraint of the direct of the constraint of the direct of the constraint of the direct of the constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the CC group of no base to a constraint of the constraint of Me lastille, PhC(OHe) CMe, O (1), b., 55-5 5", b. 15bentoylcarbinel and methyl p-antsoylcar and (GF) To big. Met/Na adjusted in a little consist added 38 g. Met/Hirris, the most filthed after its hirs a room temps, and the ditrate distding averaging that the The contest of the second seco the straight they gave a size of the politic carry with the constitution of the second contract M. Basilapi L

TEMNIKOVA, T.I.; ALMASHI, H.I.

Investigation in the field of cyclic acetals of oxycarbonyl compounds. Part 5. Methyllactolides of ethylbenzoylcarbinol and methyl-*m*-anisoylcarbinol. Zhur.ob.khim. 23 no.9:1498-1500 S *53. (MLRA 6:10)

1. Laboratoriya im. A.Ye.Favorskogo. Leningradskiy Gosudarstvennyy universitet im. A.A.Zhdanova. (Lactolides)



TEMNIKOVA, T.

WSSR/Chemistry - Reaction processes

Card

1/1

Pub. 151 - 21/37

Authors

: Temnikova, T., and Myukhyurdari, S.

Title

: About anomalous reactions of alpha-bromoketones. Part 4.- Reaction of

sodium phenolate with alpha-bromoethylnhenylketone.

Periodical : Zhur. ob. khim. 24/10, 1819-1823, Oct 1954

Abstract

: The reaction between NaC6H5O and alpha-bromoethylphenylketone was investigated in anhydrous ether and in methyl alcohol. A direct relation between the solvent and the trend of the reaction was established. The products obtained from the reaction of the above mentioned compounds, in an ethyl ether medium and in methyl alcohol, are described. The products derived from the reaction between phenol and methyllactolite of methylbenzoylcarbinol are listed.

Eight references: 5-USSR; 2-USA and 1-German (1906-1953).

Institution: State University, Leningrad

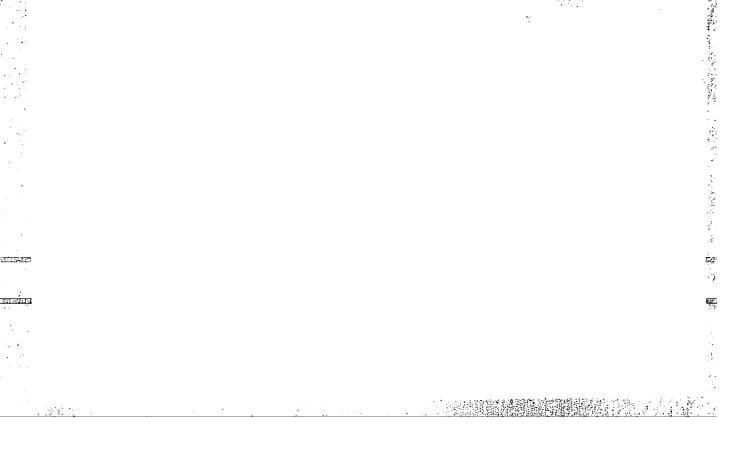
Submitted : February 20, 1954

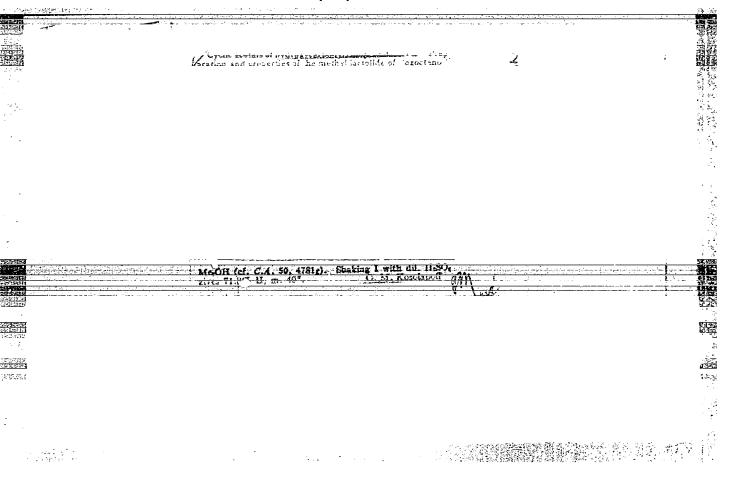
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CIA-RDP86-00513R001755220014-4

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AUTHORS:

Temnikova, T. I., and Ivanova, V. A.

79-2-14/58

TITLE:

Investigation of Cyclic Acetals of Hydroxy Carbonyl Compounds. Part 8. Methyllactolide of Propylbenzoylcarbinol and its Conversions (Issledovaniye v oblasti tsiklicheskikh atsetaley oksikarbonil'nykh soyedineniy. VIII. Metillaktolid propilbenzoilkarbinola i yego prevrashcheniya).

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 340-342 (U.S.S.R.)

ABSTRACT:

The purpose of this experiment was to study the conversions of methyl-lactolides of alpha-ketoalcohols under the effect of acid reagents in the presence of carbohyl-containing substances and particularly in an acetone solution. The authors wanted to determine whether under such conditions the carbonyl-containing compound will attach itself to the oxide cycle and whether the conversion of the methyllactolide will be the same as in the presence of solvents inactive with respect to the addition reaction in the oxide cycle. The authors obtained and characterized methyllactolide of propylbenzoylcarbinol as an oxide of alpha-methoxy- alpha-phenyl-beta-propylethylene. Methyllactolide dimerizes easily into dioxane derivatives and hydrolyzes into keto-

Card 1/2

79-2-14/58

Investigation of Cyclic Acetals of Hydroxy Carbonyl Compounds. Part 8.

alcohol-propylbenzoylcarbinol.

Carbinol-containing substances could not be introduced into the reaction with methyllactolide of fatty-aromatic ketoalcohol. The reaction of anhydrous SnCl, with methyllactolide led to isomeric conversion of the latter into methyl ether of phenylpropylcarbinol.

There are 8 references, of which 5 are Slavic

ASSOCIATION:

Leningrad State University

PRESENTED BY:

SUBMITTED:

March 10, 1956

AVAILABLE:

Library of Congress

Card 2/2

TEMNIKOVA, T.I.; GONTAREV, B.A.

Benzylidene derivatives of the hydrate form of -ketols containing 1,3-dioxolane cycles. Dokl. AH SSSR 112 no.3: 445-448 Ja '57. (MLRA 10:4)

1. Loningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akademikom I.N. Nazarovym. (Ketols) (Toluene) (Dioxolane)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

AUTHORS:

SOV/79-28-12-2/41 Temnikova, T. I., Anikeyeva, A. N.,

Tikhomirova-Sidorova, N. S.

TITLE:

S. N. Danilov's Work in the Field of Isomeric Transformations and Molecular Regroupings of Carbonyl, Oxy-Carbonyl Compounds and Carbohydrates, and Their Theoretical Importance (Raboty

S. N. Danilova v oblasti izomernykh prevrashcheniy i

molekulyarnykh peregruppirovok karbonilinykh, oksikarbonilinykh

soyzdineniy i uglevodov i ikh teoreticheskoye znacheniye)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 12,

pp 3162-3173 (USSR)

ABSTRACT:

Since Danilov's first work 45 years ago there has taken place

a great change in theory concerning the problem of the

molecular regroupings and isomeric transformations of oxygencontaining compounds; this was mainly due to Danilov's and his cooperators! work. At present it is taken for sure that molecular regroupings which complicate chemical processes in organic chemistry, depend kinetically on the displacement of the hydrogen atoms or the carbohydrate group into the adjacent position. The isomeric equilibrium transformations,

Card 1/3

which take place very easily in some cases under the influence

S. N. Danilov's Work in the Field of Isomeric SOV/79-28-12-2/41 Transformations and Mclecular Regroupings of Carbonyl, Oxy-Carbonyl Compounds and Carbohydrates, and Their Theoretical Importance

of the catalysts favorable to these transformations, depend, like all equilibrium processes, on thermodynamic factors. According to detailed reports published by Danilov important conditions are mentioned that must be taken into consideration in interpreting the mechanism of molecular regroupings of the α -glycols. The basic idea throughout all his papers is that the process of transformation depends not only on the radicals but also on their interaction, on the dehydrating agent and on conditions under which the dehydration takes place. He and his cooperators systematically investigated the behavior of α -oxy-aldehydes under the action of various catalysts, which led to important results. The oxy-aldehyde-oxy-ketone regrouping in acid medium according to Danilov takes place under an intermediate formation of α -alcohol oxides (scheme on page 3167). The manifold types of isomeric transformations and molecular regroupings were illustrated by Danilov with supplementary informations offered by other scientists according to the scheme of transitions of genetically related

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

S. N. Danilov's Work in the Field of Isomeric SOV/79-28-12-2/41
Transformations and Molecular Regroupings of Carbonyl, Oxy-Carbonyl Compounds and Carbohydrates, and Their Theoretical Importance

compounds as mentioned on page 3169 (upper half); this was carried out, for instance, in the case of compounds with two phenyl groups and two carbon atoms in the chain (the big arrows point to the transformation types realized by him). The logical continuation of the investigations of the transformations of a-exy-carbonyl compounds were his manifold papers on the monoses and disaccharides, as, for instance, those on a new method for the "epimerization" of sugars. He and his cooperators synthesized a large number of derivatives of multivalent alcohols, their aldehydes and monoses. Based on an intramolecular simultaneous acid-alkaline reaction process found by him in a large number of reactions he could explain many biochemical processes of nature. There is 1 table.

Card 3/3

sov/79-28-12-13/41 Temnikova, T. I., Oshuyeva, N. A. AUTHORS: prevrashcheniya ≪-galogenketonov) VI. Action of Sodium TITLE: Phenolate and Cresylate on & -Bromo-Cyclohexanone (VI. Deystviye fenolyata i krezolyata natriya na ≪-bromtsiklogeke-a Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3224-3226 PERIODICAL: (USSR) Continuing earlier papers (Ref 1) this paper deals with the reaction of sodium phenolate and -p-cresylate with \propto -bromo-ABSTRACT: cyclehexanone in methyl alcohol solution. The problem was whether also in the cyclohexanone series the formation of mixed ketals could be found, which would indirectly point to the formation of phenyl "lactolides" in this series. Ebel (Ebel') (Ref 3) was the first to carry out this reaction in petroleum ether, and he obtained a product with the meltingpoint of 64-65°, of the empirical formula C12H14O2. In the beginning he looked upon it as a phenoxy cyclohexanone, which, however, he later substituted for the phenoxy oxide, based on the hydrolysis with phenylhydrazine. The authors obtained again the same product following Ebel's method, with the only Card 1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

Chemical Transformations of

✓ -Halogen Ketones.

VI. Action of Sodium Phenolate and Cresylate on

✓ -Bromo-Cyclohexanone

507/79-28-12-13/41

difference that the sodium bromide was separated by centrifuging and not by water; this was done to avoid a decomposition of the phenyl "lactolide" to be expected. Ebel's product melting at 65° was spectrochemically investigated and its absorption spectra pointed to a carbonyl and phenyl group. Thus, the imitial idea of Ebel (Formula I= < -phenoxy cyclohexanone) was proved, which could also be supported by the hydrolysis of the product with 2,4-dinitro-phenyl hydrazine, as opposed to the second idea, in the form of 2,4-dinitrophenyl hydrazone. The reaction of sodium phenolate with & -bromo-cyclohexanone was no longer carried out in petroleum ether by the authors (according to Ebel), but in methyl alcohol, and they obtained the methyl-phenyl ketal of cyclohexanolon (II); this ketal is extremely unstable and requires special precaution in its distillation to obtain an analytically pure form. On the action of p-sodium cresylate on & -bromocyclohexanone in methyl alcohol also a highly unstable methyl-p-cresyl ketal of cyclohexanolon was obtained. There are 6 references, 3 of which are Soviet.

Card 2/3

sov/79-28-12-13/41

Chemical Transformations of imes -Halogen Ketones. VI. Action of Sodium Phenolate and Cresylate on

∠-Bromo-Cyclohexanone

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED:

December 31, 1957

Card 3/3

TEMNIKOVA, Tat'yana Iyanovna; KHAVIN, Z.Ya., red.; SHUR, Ye.I., red.; ERLIEH, Ye.Ya., tekhn.red. [Theoretical fundamentals of organic chemistry] Kurs teoreticheskikh osnov organicheskoi khimii. Leningrad, Gos.nauchnotekhn.izd-vo khim.lit-ry. 1959. 808 p.

(Chemistry, Organic)

CIA-RDP86-00513R001755220014-4" APPROVED FOR RELEASE: 07/16/2001

SOV/79-29-2-7/71

AUTHORS:

Temnikova, T. I., Kovalevskaya, R. N., Matveyenkova, N. I.,

Sklyarova, V. V.

TITLE:

Investigation in the Field of Cyclic Acetals of Oxy-carbonyl Compounds (Issledovaniye v oblasti tsiklicheskikh atsetaley oksikarbonil nykh soyedineniy). IX. Ethyl Lactolides and Diethyl Ketals of Ethyl-benzoyl Carbinol and Propyl-benzoyl Carbinol (IX. Etillaktolidy i dietilketali etilbenzoilkarbinola

i propilbenzoilkarbinola)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 381-386 (USSR)

ABSTRACT:

Investigation of ethyl lactolides of the α-keto alcohols has been hitherto very scarce. Following up earlier papers by Temnikov and collaborators, as well as of other chemists, the present paper describes the synthesis of two new ethyl lactolides of the secondary aliphatic-aromatic α-keto alcohols, ethyloenzoyl carbinol and propyl-benzoyl carbinol. On carrying out the reaction in the usual way, i.e. by the action of a suspension of sodium ethylate in absolute ether, resinification oc-

curred:

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SOV/79-29-2-7/71

Investigation in the Field of Cyclic Acetals of Oxy-carbonyl Compounds.

IX. Ethyl Lactolides and Diethyl Ketals of Ethyl-benzoyl Carbinol and Propylbenzoyl Carbinol

$$c_{6}^{H_{5}} = c_{-CHBr-R} = c_{2}^{H_{5}ONa} = c_{6}^{H_{5}} = c_{2}^{O} = c_{1}^{O} = c_{2}^{H_{5}} = c_{$$

Both ethyl lactolides (yield 10-15%) are very unstable and immediately yield ethyl-benzoyl carbinol with water in an alkaline medium. On the action of sodium ethylate upon the same bromomedium in absolute alcohol resinification is insignificant; ketcnes in absolute alcohol resinification is insignificant; still, only with a-bromo-butyl-phenyl ketone the separation of still, only with a-bromo-butyl-phenyl ketone the separation of

ing, however, either diethyl ketals of the corresponding α -keto alcohols (III) or further transformation products are formed. Thus, on the action of sodium ethylate on α -bromo-propyl-phenyl ketone not diethyl ketal is formed but a lactolide of ethyl-benzoyl carbinol (IV,R=C₂H₅). Diethyl ketals (III,R=C₂H₅ or n.-C₃H₇) are obtained at low temperature only. In analytically

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SOV/79-29-2-7/71

Investigation in the Field of Cyclic Acetals of Oxy-carbonyl Compounds. IX. Ethyl Lactolides and Diethyl Ketals of Ethyl-benzoyl Carbinol and Propylbenzoyl Carbinol

pure state only diethyl ketal of ethyl-benzoyl carbinol was obtained, which is likewise very unstable. Ethyl lactolides are much more unstable than methyl lactolides of the same keto alcohols. On the action of ZnCl_2 on the ethyl lactolide of propyl-benzoyl carbinol, a dimerization takes place in the cyclodiethyl dilactolide. There are 10 references, 6 of which are Soviet.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

SUBMITTED:

December 31, 1958

Card 3/3

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AUTHORS:

Temnikova, T. I., Gissel', R., Gontarev, B. A.

TITLE:

Investigation in the Field of Cyclic Acetals of Oxycarbonyl Compounds, X. Methyl Lactolides of Dimethyl--p-Anisoyl- and Dimethyl-p-Chlorobenzoyl Carbinols

and Their Transformations

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3,

pp 776-781 (USSR)

ABSTRACT:

Two methyl lactolides of tertiary aliphatic-aromatic α -keto alcohols with C1- and CH $_3$ 0-substituted benzene ring were synthesized. α -bromoisopropylanisyl ketone (1, X = CH, 0) on slow heating with sodium methylate gave an oily substance, which, on vacuum distillation

and fractionation, gave the methyl lactolide of dimethyl-p-anisoyl carbinol (II, $X = CH_3O$; bp 84° c at 2 mm; 97° C at 4 mm; 108.5° C at 6 mm; mp $38.5-39^\circ$ C).

Card 1/4

Investigation in the Field of Cyclic Acetals of Oxycarbonyl Compounds. X

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dethyl lactolide of dimethyl-p-chlorobenzoyl earbinol (II, X = Cl, bp $94-95^{\circ}$ C at 5 mm) was obtained similarly from Q-bromoisopropyl-p-chlorophenyl ketone (I, X = Cl). Both lactolides were comparatively stable and did not decompose in sealed ampoules for a long period of time. They were hygroscopic and hydrolized in air forming the corresponding Q-keto alcohols (III). The methoxy-substituted lactolide was much more hygroscopic and hydrolized more easily than the chlorine-substituted

Card 2/4

Investigation in the Field of Cyclic Acetals of Oxycarbonyl Compounds. X

73257 **30**7/79-30-3-11/69

The lactolides in reaction with benzoic acid one. gave the corresponding esters (IV; mp 73.5-74.50 c, from petroleum benzin, for $X = CH_{\odot}0$, mp 110-111 $^{\circ}$ C, from aqueous methanol, for X = Cl). Heating with a small amount of $ZnCl_2$ isomerized the lactolides into the corresponding methoxy ketones (V, bp $10.2-103^{\circ}$ G at 2.5 mm; mp $41-42^{\circ}$ C, for X = $CH_{3}O$; bp $118-119^{\circ}$ C at 9 mm for X = C1). Carbinol (III, $X = CH_3O$, mp $54-55^O$ C) was also obtained on heating the bromoketone I with aqueous NaOH or on hydrolysis of the methyl lactolide with 5% H2SO4, also with heating. The introduction of Cl-substituent in para-position of the benzene ring speeded up the reactions as compared with unsubstituted or CH20--substituted compounds. The bromoketone (I, $X = C\hat{1}$) gave with NaOH a highly exothermal reaction yielding carbinol (III, X = C1, bp 115-117° C). The latter

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was very unstable and in the presence of acids was transformed into the anhydrodimer (VI, mp 177-178° C, from aqueous methanol) of a presumably tricyclic structure.

$$\begin{array}{c|c} \operatorname{CH_3} & \operatorname{CH_3} & \operatorname{CH_3} & \operatorname{CH_3} & \\ & \operatorname{CH_3} & \operatorname{C} & \operatorname{CH_3} & \\ & \operatorname{CH_3} & \operatorname{CH_3} & \end{array}$$

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Leningrad State University (Leningradskiy gosudarst-

vennyÿ universitet)

SUBMITTED: Card 4/4

July 22, 1959

CIA-RDP86-00513R001755220014-4" APPROVED FOR RELEASE: 07/16/2001

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

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comparement
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Leningradskiy gosudarstvennyy universitet imeni A.A.
 Zhdanova.
 (Acetoacetic acid) (Bromides)

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上海特殊學院推進語音和特殊的

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(Aldehydes) (Methanol)

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

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 (Alcohols)
 (Acetoacetic acid)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755220014-4"

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Interaction of metal derivatives of \$\beta\$ -dicarbonyl compounds with \$\alpha\$-halogen oxides. Part 1: Interaction of NA= and \$C_6H_5CH_2(CH_3)\$ \$\alpha\$ derivatives of acetoacetic ester with \$\alpha\$-bromine oxides of isomeric butenes. Zhur.ob.khim. 32 no.8:2436-2442 Ag '62. (MIRA 15:9)

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(Acetoacetic acid) (Butene) (Bromine oxide)

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(Carbonyl compounds)

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TEMNIKOVA, T.I.; YERSHOV, B.A.

Reactions of metallic derivatives of β -dicarbonyl compounds with α -halooxides. Part 2: Reaction of Na-dimeden with α -bromooxides of isomeric butenes and with epibromohydrin. Chur. ob. khim. 33 no.5:1405-1408 My '63. (MIRA 16:6)

1. Leningradskiy gosudarstvennyy universitet.
(Cyclohexanedione) (Butene)
(Epibromohydrin)